Recombinant Human POR protein, His & T7-tagged

Cat. No. POR-7966H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POR aa. (Gly77~Phe518 (Accession # P16435)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly77~Phe518
Description	This gene encodes an endoplasmic reticulum membrane oxidoreductase with an FAD-binding domain and a flavodoxin-like domain. The protein binds two cofactors, FAD and FMN, which allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this gene have been associated with various diseases, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 53.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

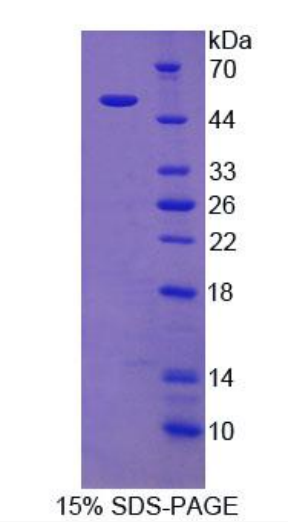
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Characteristic	The isoelectric point is 5.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

Gene Name	POR cytochrome p450 oxidoreductase [Homo sapiens (human)]
Official Symbol	POR
Synonyms	POR; cytochrome p450 oxidoreductase; CPR; CYPOR; P450R; NADPH--cytochrome P450 reductase; NADPH-dependent cytochrome P450 reductase; P450 (cytochrome) oxidoreductase
Gene ID	5447

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mRNA Refseq	NM_000941.2
Protein Refseq	NP_000932.3
UniProt ID	P16435
SDS-PAGE	 15% SDS-PAGE

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